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Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=11; day=17; hr=11; min=46; sec=19; ms=510;  
]

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\*\*\*\*\*

Reviewer Comments:

<210> 15

<211> 188

<212> PRT

<213> Mus

<400> 15

Numeric identifier <213> can only be one of three choices, "Scientific name, i.e. Genus/species, Unknown or Artificial Sequence." For all sequences using "Unknown or Artificial sequence", for numeric identifier <213>, a mandatory feature is required to explain the source of the genetic material. The feature consists of <220>, which remains blank, and <223>, which states the source of the genetic material. To explain the source, if the sequence is put together from several organisms, please list those organisms. If the sequence is made in the laboratory, please indicate that the sequence is synthesized. Please make all necessary changes.

\*\*\*\*\*

Application No: 10588417 Version No: 1.0

**Input Set:**

**Output Set:**

**Started:** 2008-10-22 11:43:01.891  
**Finished:** 2008-10-22 11:43:04.218  
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 327 ms  
**Total Warnings:** 22  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 32  
**Actual SeqID Count:** 32

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 402	Undefined organism found in <213> in SEQ ID (15)
W 402	Undefined organism found in <213> in SEQ ID (17)
W 402	Undefined organism found in <213> in SEQ ID (19)
W 402	Undefined organism found in <213> in SEQ ID (20)
W 402	Undefined organism found in <213> in SEQ ID (21)
W 402	Undefined organism found in <213> in SEQ ID (22)
W 402	Undefined organism found in <213> in SEQ ID (23)
W 402	Undefined organism found in <213> in SEQ ID (24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)
W 402	Undefined organism found in <213> in SEQ ID (27)
W 402	Undefined organism found in <213> in SEQ ID (28)
W 402	Undefined organism found in <213> in SEQ ID (29)

**Input Set:**

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Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (30)
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<210> 1  
<211> 30  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 1

Gly  
1 5 10 15

Gly  
20 25 30

<210> 2  
<211> 12  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 2

Gly  
1 5 10

<210> 3  
<211> 203  
<212> PRT  
<213> Ictalurus punctatus

<400> 3

Met Ser Ala Gln Ala Glu Glu Thr Ala Pro Glu Ala Ala Ala Pro Val  
1 5 10 15

Gln Pro Ser Gln Pro Ala Ala Lys Lys Lys Gly Pro Ala Ser Lys Ala  
20 25 30

Lys Pro Ala Ser Ala Glu Lys Lys Asn Lys Lys Lys Lys Gly Lys Gly  
35 40 45

Pro Gly Lys Tyr Ser Gln Leu Val Ile Asn Ala Ile Gln Thr Leu Gly  
50 55 60

Glu Arg Asn Gly Ser Ser Leu Phe Lys Ile Tyr Asn Glu Ala Lys Lys  
65 70 75 80

Val Asn Trp Phe Asp Gln Gln His Gly Arg Val Tyr Leu Arg Tyr Ser

85

90

95

Ile Arg Ala Leu Leu Gln Asn Asp Thr Leu Val Gln Val Lys Gly Leu

100

105

110

Gly Ala Asn Gly Ser Phe Lys Leu Asn Lys Lys Lys Phe Ile Pro Arg

115

120

125

Thr Lys Lys Ser Ser Val Lys Pro Arg Lys Thr Ala Lys Pro Thr Lys

130

135

140

Lys Pro Ala Lys Lys Ala Ala Lys Lys Lys Lys Arg Val Ser Gly Val

145

150

155

160

Lys Lys Ala Thr Pro Pro Pro Glu Lys Thr Ser Lys Pro Lys Lys Ala

165

170

175

Asp Lys Ser Pro Ala Val Ser Ala Lys Lys Ala Ser Lys Pro Lys Lys

180

185

190

Ala Lys Gln Thr Lys Lys Thr Ala Lys Lys Thr

195

200

<210> 4

<211> 956

<212> DNA

<213> Ictalurus punctatus

<400> 4

cggcacgagg gttcaatgc atctcaaggc gcttcagaac tttaagttga accatgtctg 60

ctcaggctga ggaaactgca ccagaagcag cagcaccagt acaaccatca caaccagcgg 120

ccaaaaagaa gggacccgcc agtaaagcaa agcctgcctc tgcagaaaaa aagaacaaaa 180

agaagaaaagg gaaaggccc ggaaagtaca gccagctggt gatcaatgct atccaaacgc 240

tgggagagag aaacggctcg tctctttta agatctacaa cgaggcgaag aaagtgaact 300

ggtttgacca gcagcacggc cgctgtacc tccgctactc catccgcgcg ctgctgcaga 360

acgacacgct cgtgcaggtg aagggtctgg gcgccaacgg ctccttcaag ctcaacaaaa 420

agaagttcat cccccagaacc aagaagagct ctgtaaagcc gagaaagact gcgaaaccga 480

ccaaaaagcc agccaaaaaa gcagcgaaga agaagaaaag ggtcagcggc gtgaagaagg 540

cgactccccc cccagagaaaa acctccaaac ccaagaaagc ggataaaaagt ccagccgtct 600  
ctgccaagaa ggcgagcaag cccaagaaag ctaaacagac aaaaaagact gctaagaaga 660  
cttaaaacgt ttatattctg catgcttgt gcattaagca ttgcactgcg ggtaaactgc 720  
acgctttctg atcgcagttc attaagttagg atatgcacag tgtttaacca agtgtgcaag 780  
tcactctggt ctcaatgttt tactgatgta accacatgta aataactgta caaagaagga 840  
aacaatcact tttgtaacgt ctgctttgtt attatttctt ttctactagt tagctaaaat 900  
aactgcttat ggcttcttt aaaataaaat gataaaagaa aaaaaaaaaa aaaaaaa 956

<210> 5  
<211> 956  
<212> DNA  
<213> Ictalurus punctatus

<220>  
<221> CDS  
<222> (54)..(662)  
<223> ncamp-1 nucleic acid and protein sequence

<400> 5  
cggcacgagg gttcaatagc atctcaaggc gcttcagaac ttcaaagttga acc atg 56  
Met  
1  
  
tct gct cag gct gag gaa act gca cca gaa gca gca gca cca gta caa 104  
Ser Ala Gln Ala Glu Glu Thr Ala Pro Glu Ala Ala Ala Pro Val Gln  
5 10 15  
  
cca tca caa cca gcg gcc aaa aag aag gga ccc gcc agt aaa gca aag 152  
Pro Ser Gln Pro Ala Ala Lys Lys Lys Gly Pro Ala Ser Lys Ala Lys  
20 25 30  
  
cct gcc tct gca gaa aaa aag aac aaa aag aag aaa ggg aaa ggg ccc 200  
Pro Ala Ser Ala Glu Lys Lys Asn Lys Lys Lys Gly Lys Gly Pro  
35 40 45  
  
gga aag tac agc cag ctg gtg atc aat gct atc caa acg ctg gga gag 248  
Gly Lys Tyr Ser Gln Leu Val Ile Asn Ala Ile Gln Thr Leu Gly Glu  
50 55 60 65  
  
aga aac ggc tcg tct ctt ttt aag atc tac aac gag gcg aag aaa gtg 296  
Arg Asn Gly Ser Ser Leu Phe Lys Ile Tyr Asn Glu Ala Lys Lys Val  
70 75 80  
  
aac tgg ttt gac cag cag cac ggg cgc gtg tac ctc cgc tac tcc atc 344  
Asn Trp Phe Asp Gln Gln His Gly Arg Val Tyr Leu Arg Tyr Ser Ile  
85 90 95  
  
cgc gcg ctg ctg cag aac gac acg ctc gtg cag gtg aag ggt ctg ggc 392

Arg Ala Leu Leu Gln Asn Asp Thr Leu Val Gln Val Lys Gly Leu Gly			
100	105	110	
gcc aac ggc tcc ttc aag ctc aac aaa aag aag ttc atc ccc aga acc			440
Ala Asn Gly Ser Phe Lys Leu Asn Lys Lys Phe Ile Pro Arg Thr			
115	120	125	
aag aag agc tct gta aag ccg aga aag act gcg aaa ccg acc aaa aag			488
Lys Lys Ser Ser Val Lys Pro Arg Lys Thr Ala Lys Pro Thr Lys Lys			
130	135	140	145
cca gcc aaa aaa gca gcg aag aag aag aaa agg gtc agc ggc gtg aag			536
Pro Ala Lys Lys Ala Ala Lys Lys Lys Arg Val Ser Gly Val Lys			
150	155	160	
aag gcg act ccc ccc cca gag aaa acc tcc aaa ccc aag aaa gcg gat			584
Lys Ala Thr Pro Pro Pro Glu Lys Thr Ser Lys Pro Lys Lys Ala Asp			
165	170	175	
aaa agt cca gcc gtc tct gcc aag aag gcg agc aag ccc aag aaa gct			632
Lys Ser Pro Ala Val Ser Ala Lys Lys Ala Ser Lys Pro Lys Lys Ala			
180	185	190	
aaa cag aca aaa aag act gct aag aag act taaaacgttt atattctgca			682
Lys Gln Thr Lys Lys Thr Ala Lys Lys Thr			
195	200		
tgcttgtgc attaaggcatt gcactgcggg taaaactgcac gctttctgat cgcaaggcat			742
taagtaggat atgcacagtg tttaaccaag tgtgcaagtc actctggctt caatgttttta			802
ctgatgtaac cacatgtaaa taactgtaca aagaaggaaa caatcactt tgtaacgtct			862
gctttgttat tattttttt ctactagtta gctaaaataa ctgcttatgg cttcttttaa			922
aataaaatga taaaagaaaa aaaaaaaaaa aaaa			956

<210> 6  
 <211> 203  
 <212> PRT  
 <213> Ictalurus punctatus

<400> 6

Met Ser Ala Gln Ala Glu Glu Thr Ala Pro Glu Ala Ala Ala Pro Val			
1	5	10	15

Gln Pro Ser Gln Pro Ala Ala Lys Lys Lys Gly Pro Ala Ser Lys Ala			
20	25	30	

Lys Pro Ala Ser Ala Glu Lys Lys Asn Lys Lys Lys Gly Lys Gly			
35	40	45	

Pro Gly Lys Tyr Ser Gln Leu Val Ile Asn Ala Ile Gln Thr Leu Gly  
50 55 60

Glu Arg Asn Gly Ser Ser Leu Phe Lys Ile Tyr Asn Glu Ala Lys Lys  
65 70 75 80

Val Asn Trp Phe Asp Gln Gln His Gly Arg Val Tyr Leu Arg Tyr Ser  
85 90 95

Ile Arg Ala Leu Leu Gln Asn Asp Thr Leu Val Gln Val Lys Gly Leu  
100 105 110

Gly Ala Asn Gly Ser Phe Lys Leu Asn Lys Lys Lys Phe Ile Pro Arg  
115 120 125

Thr Lys Lys Ser Ser Val Lys Pro Arg Lys Thr Ala Lys Pro Thr Lys  
130 135 140

Lys Pro Ala Lys Lys Ala Ala Lys Lys Lys Arg Val Ser Gly Val  
145 150 155 160

Lys Lys Ala Thr Pro Pro Glu Lys Thr Ser Lys Pro Lys Lys Ala  
165 170 175

Asp Lys Ser Pro Ala Val Ser Ala Lys Lys Ala Ser Lys Pro Lys Lys  
180 185 190

Ala Lys Gln Thr Lys Lys Thr Ala Lys Lys Thr  
195 200

<210> 7  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 7

Gly  
1 5 10 15

Gly Gly Gly Gly  
20

<210> 8  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 8

Thr Cys Gly Thr Cys Gly Thr Thr Gly Thr Cys Gly Thr Thr Gly Thr  
1 5 10 15

Cys Gly Thr Thr  
20

<210> 9  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 9

Cys  
1 5 10 15

Cys Cys Cys Cys  
20

<210> 10  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 10

Ala  
1 5 10 15

Ala Ala Ala Ala  
20

<210> 11  
<211> 20

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 11

Thr  
1 5 10 15

Thr Thr Thr Thr  
20

<210> 12  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic Peptide

<400> 12

Thr Gly Cys Thr Gly Cys Thr Thr Gly Thr Gly Cys Thr Thr Gly Thr  
1 5 10 15

Gly Cys Thr Thr  
20

<210> 13  
<211> 192  
<212> PRT  
<213> Danio rerio

<400> 13

Met Pro Ala Val Val Glu Glu Ser Ala Pro Ala Pro Ala Pro  
1 5 10 15

Ala Glu Lys Lys Ala Lys Pro Ala Val Ala Ala Ser Pro Ala Lys Lys  
20 25 30

Lys Lys Lys Lys Ser Lys Gly Pro Gly Lys Tyr Ser Lys Leu Val Thr  
35 40 45

Asp Ala Ile Arg Thr Leu Gly Glu Lys Asn Gly Ser Ser Leu Phe Lys  
50 55 60

Ile Tyr Asn Glu Ala Lys Lys Val Ser Trp Phe Asp Gln Lys Asn Gly  
65 70 75 80

Arg Met Tyr Leu Arg Ala Ser Ile Arg Ala Leu Val Leu Asn Asp Thr  
85 90 95

Leu Val Gln Val Lys Gly Phe Gly Ala Asn Gly Ser Phe Lys Leu Asn  
100 105 110

Lys Lys Lys Leu Glu Lys Lys Pro Lys Lys Ala Ala Ser Lys Lys Ala  
115 120 125

Thr Lys Lys Thr Glu Lys Pro Thr Ser Lys Lys Ala Val Thr Lys Lys  
130 135 140

Val Ser Ala Lys Lys Ser Ala Lys Lys Ser Pro Val Lys Lys Lys Thr  
145 150 155 160

Pro Lys Lys Thr Ser Val Lys Lys Ala Thr Ala Lys Pro Lys Lys Thr  
165 170 175

Ala Ser Lys Lys Pro Lys Ala Ala Ala Lys Lys Lys Thr Lys Ser Lys  
180 185 190

<210> 14

<211> 217

<212> PRT

<213> Xenopus laevis

<400> 14

Met Ala Leu Glu Leu Glu Glu Asn Leu His Ser Thr Glu Glu Glu Asp  
1 5 10 15

Glu Glu Glu Glu Glu Glu Gly Asp Glu Met Arg Ser Arg Ser Thr  
20 25 30

Arg Asn Lys Gly Gly Ala Ala Ser Ser Ser Gly Asn Lys Lys Lys Lys  
35 40 45

Lys Lys Lys Asn Gln Pro Gly Arg Tyr Ser Gln Leu Val Val Asp Thr  
50 55 60

Ile Arg Lys Leu Gly Glu Arg Asn Gly Ser Ser Leu Ala Lys Ile Tyr  
65 70 75 80

Ser Glu Ala Lys Lys Val Ser Trp Phe Asp Gln Gln Asn Gly Arg Thr  
85 90 95

Tyr Leu Lys Tyr Ser Ile Lys Ala Leu Val Gln Asn Asp Thr Leu Leu  
100 105 110

Gln Val Lys Gly Val Gly Ala Asn Gly Ser Phe Arg Leu Asn Lys Lys  
115 120 125

Lys Leu Glu Gly Leu Pro Tyr Asp Lys Lys Pro Pro Pro Ala Lys Pro  
130 135 140

Ser Ser Ser Ser Ser Asn Lys Lys Gln Gln Gln Gly Pro Ser Ser  
145 150 155 160

Ser Pro Ser Lys Ser His Lys Lys Ala Lys Pro Lys Ala Lys Ala Glu  
165 170 175

Lys Glu Lys Pro Lys Thr Ser Ser Ala Lys Ala Lys Ser Pro Lys Lys  
180 185 190

Ser Ala Ala Lys Gly Lys Lys Met Lys Lys Gly Ala Lys Pro Ser Val  
195 200 205

Arg Lys Ala Pro Lys Ser Lys Lys Ala  
210 215

<210> 15  
<211> 188  
<212> PRT  
<213> Mus

<400> 15

Met Ser Val Glu Leu Glu Glu Ala Leu Pro Pro Thr Ser Ala Asp Gly  
1 5 10 15

Thr Ala Arg Lys Thr Ala Lys Ala Gly Gly Ser Ala Ala Pro Thr Gln  
20 25 30

Pro Lys Arg Arg Lys Asn Arg Lys Lys Asn Gln Pro Gly Lys Tyr Ser  
35 40 45

Gln Leu Val Val Glu Thr Ile Arg Lys Leu Gly Glu Arg Gly Gly Ser  
50 55 60

Ser Leu Ala Arg Ile Tyr Ala Glu Ala Arg Lys Val Ala Trp Phe Asp  
65 70 75 80

Gln Gln Asn Gly Arg Thr Tyr Leu Lys Tyr Ser Ile Arg Ala Leu Val  
85 90 95

Gln Asn Asp Thr Leu Leu Gln Val Lys Gly Thr Gly Ala Asn Gly Ser  
100 105 110

Phe Lys Leu Asn Arg Lys Lys Leu Glu Gly Gly Ala Glu Arg Arg Gly  
115 120 125

Ala Ser Ala Ala Ser Ser Pro Ala Pro Lys Ala Arg Thr Ala Ala Ala  
130 135 140

Asp Arg Thr Pro Ala Arg Pro Gln Pro Glu Arg Arg Ala His Lys Ser  
145 150 155 160

Lys Lys Ala Ala Ala Ala Ser Ala Lys Lys Val Lys Lys Ala Ala  
165 170 175

Lys Pro Ser Val Pro Lys Val Pro Lys Gly Arg Lys  
180 185

<210> 16

<211> 213

<212> PRT

<213> Homo sapiens

<400> 16

Met Ser Val Glu Leu Glu Glu Ala Leu Pro Val Thr Thr Ala Glu Gly  
1 5 10 15

Met Ala Lys Lys Val Thr Lys Ala Gly Gly Ser Ala Ala Leu Ser Pro  
20 25 30

Ser Lys Lys Arg Lys Asn Ser Lys Lys Lys Asn Gln Pro Gly Lys Tyr  
35 40 45

Ser Gln Leu Val Val Glu Thr Ile Arg Arg Leu Gly Glu Arg Asn Gly  
50 55 60

Ser Ser Leu Ala Lys Ile Tyr Thr Glu Ala Lys Lys Val Pro Trp Phe  
65                   70                   75                   80

Asp Gln Gln Asn Gly Arg Thr Tyr Leu Lys Tyr Ser Ile Lys Ala Leu  
85                   90                   95

Val Gln Asn Asp Thr Leu Leu Gln Val Lys Gly Thr Gly Ala Asn Gly  
100               105               110

Ser Phe Lys Leu Asn Arg Lys Lys Leu Glu Gly Gly Glu Arg Arg  
115               120               125

Gly Ala Pro Ala Ala Ala Thr Ala Pro Ala Pro Thr Ala His Lys Ala  
130